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ican Association for the Advancement of Science. Referred to the officers.

The following papers were read during the sessions:

R. Matheson: "Remarks on the External Anatomy of the Haliplidæ."

W. M. Wheeler: "On the Effects of Parasitic and Other Kinds of Castration in Insects."

Miss A. H. Morgan: "Some Correlations of May-fly Structure and Habit."

C. R. Crosby: "Some Observations by the Late Professor Slingerland and the Speaker on the Life History of *Heterocordylus malinus*" (read by title).

C. J. Triggerson: "The Life-cycle of the Oak Hedge-hog Gall-fly (*Acraspis erinacea*)."

F. L. Washburn: "A Jumping Seed-gall on the Burr Oak."

A. D. MacGillivray: "The Female Reproductive Organs of *Corydalis cornuta*."

W. L. W. Field: "The Offspring of a Captured Female of *Basilarchia proserpina*." To be published in April number of *Psyche*.

H. H. Lyman: "An Improved Drawer for Insect Cabinets and a New Substance for Lining them."

C. T. Brues: "Some Notes on the Geological History of the Parasitic Hymenoptera."

J. C. Bradley: "The Plaiting of the Wings of Hymenoptera."

T. J. Headlee: "An Apparatus for the Determination of Optimums of Temperature and Moisture for Insects."

A. D. MacGillivray: "The Radial Sector in *Phlebotrophia mathesoni*."

W. T. M. Forbes: "A Structural Study of some Caterpillars."

M. J. Elrod: "The Blackfoot Glacier as an Entomological Burying Place" (read by title).

J. J. Davis: "*Chaitophorus populifoliæ* Fitch versus *Chaitophorus populifoliæ* Oestland" (read by title).

L. Haseman: "The Life History of a Species of Psychodidæ" (read by title).

A. G. Hammar: "Notes on the Life History of *Fidiobia flavipes* Ashmead, an Egg Parasite of the Grape Root Worm (*Fidia viticida* Walsh)."

A very interesting and extensive exhibition was held in conjunction with and under the auspices of the Cambridge Entomological Club in rooms adjoining the meeting hall.

The annual public address was given by Dr. John B. Smith on the evening of December 30 in the hall of the Boston Society of Natural History,

title, "Insects and Entomologists: Their Relations to the Community at Large."

On Tuesday evening the visiting entomologists were the guests of the Cambridge Entomological Club at a most enjoyable smoker held in Copley Hall.

J. CHESTER BRADLEY,  
Secretary-Treasurer

#### THE ASSOCIATION OF OFFICIAL SEED ANALYSTS

THE second annual meeting of the Association of Official Seed Analysts was held in Boston, December 28-29, 1909, in connection with the meeting of the American Association for the Advancement of Science.

Agricultural colleges, experiment stations and state departments of agriculture in twelve states and the Canadian and the United States departments of agriculture were represented.

Three papers were presented as follows:

"The Effect of Alternating Temperature, on the Germination of Seeds," by W. L. Goss, U. S. Department of Agriculture.

"Importance of Uniform Methods of Seed Testing," by A. D. Selby, Ohio Agricultural Experiment Station.

"The Sale of Adulterated Farm Seeds in the United States," by E. Brown, U. S. Department of Agriculture.

The greater part of the time of the meeting was devoted to consideration of the reports of the committees on methods of seed testing and on legislation. The report on methods of seed testing for purity was adopted as official by the association and that on germination as provisional. The report on state legislation was adopted and the secretary was instructed to prepare both reports for publication.

E. BROWN,  
Secretary

#### SOCIETIES AND ACADEMIES

##### THE GEOLOGICAL SOCIETY OF WASHINGTON

THE 228th meeting of the society was held at the George Washington University on Wednesday evening, February 23, 1910.

Mr. E. W. Shaw, in an informal communication, described a log-shaped mass of sandstone included in coal at Murphysboro, Illinois.

Mr. P. S. Smith spoke on the formation of plain surfaces above base-level, with particular reference to such features observed in Alaska.